

METHOD AND SYSTEM FOR FUEL INJECTOR TIME DELAY INSTALLATION

Abstract

State-of-the-art fuel injectors have an inherent time delay that is determined by an elapsed time from the time an electrical signal is received by the fuel injector from an ECU to the time that fuel is actually initially injected into the cylinder. That time is currently an average time and therefore the fuel injectors must be manufactured with very precise tolerances. The present invention includes a method and apparatus that allows the use of production fuel injectors that are more economical to manufacture by allowing wider tolerances. The invention includes determining the actual time delay for each fuel injector. The fuel injectors are supplied with a computer program and a data file containing the time delay determined especially for that particular fuel injector.